

2.2 Rational #s in Decimal Form

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Adding and Subtracting

estimate
 $3 + -4$
 $= -1$

$2.65 + (-3.81) \rightarrow$ ans will be neg
 $= -1.16 \rightarrow$ find difference

$$\begin{array}{r} 3.81 \\ - 2.65 \\ \hline 1.16 \end{array}$$

257.315

you try:

estimate
 $-6 + 7$
 $= 1$

$-5.96 - (-6.83)$
 $= -5.96 + 6.83 \rightarrow$ ans will be pos
 $= 0.87 \rightarrow$ find diff

$$\begin{array}{r} 6.83 \\ - 5.96 \\ \hline 0.87 \end{array}$$

Multiplying

estimate $\leftarrow 0.45 \times (-1.2) \rightarrow$ sign of answer " $-$ "
 $0.5 \times -1 = -0.5$
 $= -0.54$

$$\begin{array}{r} 0.45 \\ \times 1.2 \\ \hline 090 \\ + 045 \\ \hline 0.540 \end{array}$$

you try

estimate
 -0.2×-2
 $= 0.4$

$(-0.23)(-1.9) \rightarrow$ sign of answer "+"
 $= 0.437$

$$\begin{array}{r} 0.23 \\ \times 1.9 \\ \hline 207 \\ + 023 \\ \hline 0.437 \end{array}$$

$\frac{10}{2} = \frac{100}{20} = \frac{1000}{200}$

Divide

estimate
 $-2 \div -0.2$
 $= \frac{-2}{-0.2}$
 $= 10$

$-2.3 \div (-0.25) \rightarrow$ sign "+"
 $= 9.2$

$$\begin{array}{r} 0.25 \overline{) 2.3} \\ 9.2 \\ 25 \overline{) 230.0} \\ \underline{225} \\ 50 \\ \underline{50} \\ 0 \end{array}$$

get rid of decimals by multiplying both #'s by 100

Try one:

estimate
 $-3 \div 5$
 $= -\frac{3}{5}$
 $= -0.6$

$-2.76 \div 4.6 \rightarrow$ sign "-"
 $= -0.6$

$$\begin{array}{r} 4.6 \overline{) 2.76} \\ 0.6 \\ \underline{276} \\ 0 \end{array}$$

$\times 10$
 $\underline{0.6}$

$$= \frac{-2}{5}$$

$$= \frac{-6}{10}$$

$$= 0.6$$

$$\begin{array}{r}
 7.61 \quad 2.1 \sim \\
 \hline
 46 \overline{) 27.6} \\
 \underline{230} \\
 46
 \end{array}
 \rightarrow
 \begin{array}{r}
 \text{2.1} \sim \\
 \hline
 46 \overline{) 27.6} \\
 \underline{276} \\
 0
 \end{array}$$

Practice pg 60 # 4, 6, 8, 10, 12, 13, 16, 22